

Appendix Table 4-20
R&D performed in the United States by U.S. multinational company parent companies, by NAICS industry: 2009–13

(Millions of current U.S. dollars)

Industry	NAICS code	2009	2010	2011	2012	2013
All industries	na	207,297	205,674	220,279	232,955	246,046
Mining	21	560	556	712	620	774
Oil and gas extraction	211	D	D	D	16	15
Other mining	na	D	D	D	604	759
Manufacturing	31–33	157,731	152,855	159,646	164,489	172,428
Food	311	1,927	2,196	2,565	2,623	2,656
Beverage and tobacco products	312	338	313	289	329	410
Textiles, apparel, and leather products	313–16	182	216	203	203	197
Wood products	321	80	87	47	D	D
Paper manufacturing	322	1,069	1,150	1,229	1,282	1,916
Printing and related support activities	323	133	74	79	77	75
Petroleum and coal products	324	2,924	3,249	2,967	2,988	3,120
Chemicals	325	47,244	49,878	52,480	55,088	58,859
Basic chemicals	3251	913	1,014	1,169	1,271	1,154
Resins and synthetic rubber, fiber, and filament	3252	2,721	3,233	3,428	3,780	3,850
Pharmaceuticals and medicines	3254	39,576	41,614	44,427	46,969	50,788
Soap, cleaning compound, and toilet preparation	3256	D	1,936	2,131	1,839	1,920
Other	na	D	2,081	1,325	1,229	1,147
Plastic and rubber products	326	1,109	1,249	1,154	1,255	1,012
Nonmetallic mineral products	327	388	383	429	450	456
Primary and fabricated metals	na	1,217	1,224	1,260	1,341	1,176

Industry	NAICS code	2009	2010	2011	2012	2013
Primary metals	331	453	482	520	512	508
Fabricated metal products	332	764	743	740	830	668
Machinery	333	6,743	7,771	8,344	9,039	9,371
Agriculture, construction, and mining machinery	3331	2,330	2,912	3,531	3,722	3,802
Industrial machinery	3332	1,690	1,996	1,899	2,124	2,234
Other machinery	na	2,724	2,863	2,914	3,193	3,335
Computer and electronic products	334	35,823	34,535	42,305	44,029	44,649
Computer and peripheral equipment	3341	6,717	4,918	6,472	8,105	8,707
Communication equipment	3342	7,991	8,059	9,524	7,440	7,500
Audio and video equipment	3343	D	682	723	684	675
Semiconductor and other electronic components	3344	12,893	13,648	15,716	17,367	17,015
Navigational, measuring, and other instruments	3345	7,557	7,228	9,870	10,433	10,752
Magnetic and optical media	3346	D	0	0	0	0
Electrical equipment, appliances, and components	335	3,040	3,059	3,623	4,215	4,270
Transportation equipment	336	48,960	40,224	35,307	33,863	36,245
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	10,316	12,387	12,433	12,705	15,124
Other	na	38,643	27,837	22,874	21,158	21,121
Furniture and related products	337	237	216	243	235	238
Miscellaneous manufacturing	339	6,317	7,030	7,123	D	D
Wholesale trade	42	6,440	6,299	6,921	8,056	7,852
Professional and commercial equipment and supplies	4234	1,173	1,638	1,915	1,936	1,831
Petroleum and petroleum products	4247	D	D	D	D	D
Drugs and druggists' sundries	4242	1,322	1,363	1,453	1,522	1,601
Other	na	D	D	D	D	D
Retail trade	44-45	D	D	D	D	D

Industry	NAICS code	2009	2010	2011	2012	2013
General merchandise stores	452	0	0	0	0	0
Clothing and clothing accessories stores	448	8	D	8	D	D
Other	na	D	D	D	D	D
Information	51	21,035	22,577	24,996	29,013	31,645
Publishing	511	14,456	14,713	15,188	16,261	17,040
Motion picture and sound recording industries	512	D	D	D	D	D
Broadcasting (except Internet) and telecommunications	na	1,128	1,157	1,443	1,570	1,795
Broadcasting (except Internet)	515	D	D	70	71	96
Telecommunications	517	D	D	1,374	1,499	1,698
Data processing, hosting, and related services	518	750	805	930	991	1,166
Other	na	D	D	D	D	D
Finance and insurance	52	186	384	469	522	596
Depository credit intermediation (banking)	5221	0	D	D	D	D
Finance (except depository institutions)	na	D	D	D	179	203
Insurance carriers and related activities	524	D	71	112	D	D
Professional, scientific, and technical services	54	15,931	18,056	21,614	22,466	23,734
Architectural, engineering, and related services	5413	42	118	D	D	D
Computer systems design and related services	5415	10,134	11,135	12,737	13,358	13,538
Management, scientific, and technical consulting	5416	71	D	D	D	D
Advertising and related services	5418	1	D	D	D	D
Other	na	5,683	6,715	7,419	7,551	D
Other industries	na	D	D	D	D	D
Agriculture, forestry, fishing, and hunting	11	D	D	D	D	D
Construction	23	4	D	D	112	104
Utilities	22	6	12	15	16	29



Industry	NAICS code	2009	2010	2011	2012	2013
Transportation and warehousing	48-49	68	55	36	72	75
Real estate, rental, and leasing	53	D	D	D	D	D
Management of nonbank companies and enterprises	55	0	*	*	0	0
Administration, support, and waste management	56	D	988	D	D	D
Health care and social assistance	62	D	D	D	D	D
Accommodation and food services	72	37	51	51	49	35
Miscellaneous services	na	344	338	372	202	213

* = < \$500,000; D = suppressed to avoid disclosure of confidential information; na = not applicable.

NAICS = North American Industry Classification System.

NOTES: Data are for all parent companies (bank and nonbank) of U.S. multinational companies (MNCs). (Before 2009, data were for nonbank U.S. MNC parent companies.) A U.S. MNC parent company is defined as a company that resides in the United States and owns or controls at least 10% of voting securities or the equivalent of foreign business enterprise. Industries are classified by the U.S. Bureau of Economic Analysis using the international surveys industry classification system based on the NAICS. Data are for R&D performed regardless of funding source, whether for the performer itself or others, including R&D performed for the federal government; data exclude R&D conducted by others under contract. For data before 2009, see appendix table 4-29 in *Science and Engineering Indicators 2014*, <http://www.nsf.gov/statistics/seind14/index.cfm/appendix/tables.htm>.

SOURCE: U.S. Bureau of Economic Analysis, Direct Investment and Multinational Enterprises (annual series), http://www.bea.gov/iTable/index_MNC.cfm, accessed 18 August 2015.

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